



# Flex Film

## SAFETY DATA SHEET

SAFETY DATA SHEET In accordance with Regulation Annex I to Commission Regulation 453/2010

DATE OF ISSUE 24 February 2015  
UPDATED ON 24 October 2017

### Bi axially oriented Polypropylene (BOPP)

#### 1.0 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

##### 1.1 Product identifier:

REACH Registration Number Not applicable.

EC# & CAS#	Name of substance	CAS	EC
	Polypropylene	9003-07-0	Not available
	aluminium	7429-90-5	231-072-3

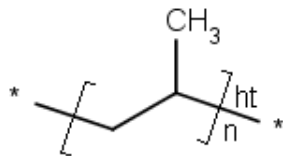
Trade Name: FLEXOPP™ & FLEXMETPROTECT™

Synonym: Bi axially oriented Polypropylene (BOPP)

Chemical Name Polypropylene and its Copolymer/Terpolymer/Aluminum metalized

Chemical Formula Propene Homo polymer, (C<sub>3</sub>H<sub>6</sub>) n- (min.90%)

Structural Formula



#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses:

- Flexible packaging application.
- Decorative application.
- Industrial application.
- Food packaging.
- Building protection.
- Cosmetic packaging.

Uses advised against: No data available.

Manufacturing Sites: \_\_\_\_\_

1) India: UFLEX LIMITED (Film Business), A-1, Sector-60, NOIDA - 201 301, U.P. INDIA., Tel: +91 (120) 4002121, 3982121, Fax: +91 (120) 2580511, 2580003, E-Mail: enquiry@flexfilm.com

2) Egypt: FLEX P. FILMS (EGYPT) S.A.E, Plot no. R2 in Engineering Square (e2),, Plot no. 3 in North Extension of Industrial Zone,, 6 October City,, Arab Republic of Egypt, Tel: +202

38283000, Fax: +202 38283050, E-Mail: enquiry@flexfilm.com



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1.3 Details of the Supplier of the Safety Data Sheet	
Manufacturer/Supplier	UFLEX LIMITED
Street address/P.O. Box	A-1,SECTOR-60,NOIDA – 201301
Country ID/Postcode/Place	(U.P), INDIA
Telephone number (if possible, indicate telefax)	+91 120-3982121, 3982535, 3982658 Fax: +91 120-2580152, 2580511, 2580003
Email ID	<a href="mailto:jitendrak.sharma@flexfilm.com">jitendrak.sharma@flexfilm.com</a> Web site : <a href="http://www.flexfilm.com">www.flexfilm.com</a>
National contact:	Mob. No. +91-9717355528 Phone +91-120-3982-249
1.4 Emergency telephone number	
Only available during office hours.	+91 120-3982121, 3982535, 3982658
2.0 HAZARDS IDENTIFICATION	
2.1. Classification of the substance or mixture to CLP	
2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)	
Not a dangerous substance according to GHS. This substance is not classified as dangerous according to Directive 67/548/EEC.	
2.1.2. Classification according to Directive 67/548/EEC (DSD)	
This substance is not classified as dangerous according to Directive 67/548/EEC.	
2.1.3 Additional information: No data available.	
2.2. Label elements (CLP only) Labeling according to Regulation (EC) No 1272/2008 (CLP/GHS)	
Classification and labeling according to EU Regulation (EC) 1272/2008 (CLP Regulation) and Globally Harmonized System (GHS):	
Label elements	
GHS Pictogram	no labelling required (no dangerous properties)
Signal Word	No signal word
Hazard Statement	no classification required (no dangerous properties)
Precautionary Statement prevention	P280: Wear protective gloves/protective clothing/eye protection/face protection P261: Avoid breathing dust/fume/gas/mist/vapours/spray

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	P262: Do not get in eyes, on skin, or on clothing		
<b>Precautionary Statement Storage</b>	P402+404: Store in a dry place. Store in a closed container		
<b>2.3. Other hazards Substance meets the criteria for PBT OR vPvB according to Regulation (EC) 1907/2006, Annex XIII</b>			
None			
<b>3.0 COMPOSITION/INFORMATION ON INGREDIENTS</b>			
<b>CAS No</b>	<b>EC No</b>	<b>% Purity(w/w)</b>	<b>Classification according to Regulation (EC) No 1278/2008 (CLP).</b>
9003-07-0	Not available	> 99.0%	no classification required (no dangerous properties)
7429-90-5	231-072-3	< 0.1%	no classification required as concentration is less than 0.1%.
<b>4.0 FIRST AID MEASURES</b>			
<b>4.1. Description of first aid measures</b>			
<b>General notes</b>	Observe good industrial hygiene practices.		
<b>Eye contact</b>	Exposure to hot molten material. In this case: Rinse with plenty of water. Seek immediate special treatment at hospital or medical center in case of irritation caused by vapours or fumes wash with water and seek medical advice.		
<b>Skin Contact</b>	Exposure to hot molten material. In this case: Rinse with plenty of water. Do NOT remove clothing (risk of sticking to skin) or do not try removing adhering material. Seek medical advice immediately. However, use of protective gloves/clothing is good industrial practice		
<b>Inhalation</b>	Fumes and vapours produced by heated or burnt material may be irritating for the respiratory track. Bring patient into fresh air; get medical advice if the symptoms continue.		
<b>Ingestion</b>	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.		
<b>4.2. Most important symptoms and effects, both acute and delayed</b>			
No data available.			
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>			
No specific advice. Treat according to symptoms present.			
<b>5.0 FIRE-FIGHTING MEASURES</b>			
<b>5.1. Extinguishing media:</b>			
<b>Suitable extinguishing media:</b> Water mist only to cool the surface exposed to fire, carbon dioxide, foam, Halon, AFFF(Aqueous film forming foam)			
<b>Unsuitable extinguishing media:</b> Do not use water jets for extinguishing fire, since they could help to spread the flames.			

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### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products:** Complete combustion with excess of oxygen forms: carbon dioxide and water vapour.

### 5.3. Advice for fire-fighters

Stop the fire spreading, call the Fire brigade immediately, evacuate non-essential personnel. Protective clothing's, goggles and self contained breathing equipment should be made available for fireman.

### Other information

#### Special Remarks on Fire Hazards

Wear suitable Self-contained breathing equipment in case of risk of exposure to vapors or fumes.

## 6.0 ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

##### Protective equipment:

Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment.

#### 6.1.2 For emergency responders

Remove ignition sources from the powdered grades. Keep away from heat or flame. Sweep up with a minimum of dusting. Collect in container, e.g. fiberboard drum or carton.

### 6.2 Environmental precautions:

Keep out of drains and water sources.

### 6.3 Methods and material for containment and cleaning up

#### 6.3.1 For containment:

Avoid dust formation. Collect dust using a vacuum cleaner equipped with HEPA filter. If not possible, gently moisten dust with water fog before it is collected with shovel, broom or the like. Flush area with water.

#### 6.3.2 For cleaning up:

**Small Spill and Leak** Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep, shovel, or vacuum material into clean containers.

**Large Spill and Leak** Use a shovel to put the material into a convenient waste disposal container. Do not allow any potentially contaminated water with pellets to enter any waterway, sewer or drain.

#### 6.3.3 Other Information:

No data available.

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### 6.4 Reference to other sections:

None

### 7.0 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

##### Protective measures:

- Keep away from ignition sources.
- Observe the general rules of industrial fire protection.
- Keep the film at room temp. 24hrs.prior to processing.
- Keep original wrapping on the film until it is used. In case the roll is partially used, the balance roll should be preserved on the standard packing with sticker.
- Film rolls should be moved only with equipment designed for the purpose as film rolls and pallets are heavy. Film edges are sharp and may cause cuts/wounds, handle with most care.
- In most of the processes where there is a movement of film over metal roller, Static electrical charges develop on the film, which may provide source of ignition to flammable vapors and gases or may give static shock to operator. Avoid static buildup.

##### Measures to prevent fire:

Keep away from sources of ignition - No smoking. Store in a cool, dry place out of direct sunlight. Ground container and transfer equipment to eliminate static electric sparks. Store away from incompatible materials.

##### Measures to prevent aerosol and dust generation:

No data available.

##### Measures to protect the environment:

Keep out of drains and water sources.

##### Advice on general occupational hygiene:

ADEQUATE PERSONAL PROTECTIVE EQUIPMENT INCLUDING GLOVES, IMPERVIOUS SLEEVES & APRONS & EYE & FACE SHIELDS SHOULD BE PROVIDED.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Technical measures and storage conditions:

- Does not require special storage conditions. It is recommended to store below 30 °C in order to avoid any deterioration of the film surface properties.
- Use both the films by FIFO system & it is advised to rotate the film stock.
- **Shelf life: 3 months for bare film ( FLEXOPP™) and metallized film ( FLEXMETPROTECT™) from the date of dispatch.**

##### Packaging materials:

Keep packages closed to prevent contamination.

##### Requirements for storage rooms and vessels:

Same as mentioned above.

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### 7.3. Specific end use(s)

Same as mentioned in section 1.2

### 8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

No data available.

#### 8.2 Exposure controls

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

##### 8.2.1. Occupational Exposure controls

Standard usage condition of material does not generate the dust particles.

##### 8.2.2 Personal protection equipment:

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

##### 8.2.2.1 Eye and face protection:

Normal eye protection practices should be used. If dusty conditions exist, chemical goggles are recommended.

##### 8.2.2.2 Skin protection:

If contact with hot molten material is possible, wear heat insulating and chemical proof gloves and clothes and face shield and goggles for eyes

##### Hand protection:

No protection is ordinarily required under normal conditions of use. It is a good industrial hygiene practice to minimize skin contact.

##### Other skin protection:

Slabs of film on the floor can be slippery. Exercise due care in areas where slippage can occur.

##### 8.2.2.3 Respiratory protection:

In case of risk of exposure to dust, vapour or fumes generated by thermal decomposition of the material, it is recommended that a local exhaust system is placed above the converting equipment (hood) and the working area must be properly ventilated.

##### 8.2.2.4 Thermal hazards:

Wear appropriate thermal protective clothing, when necessary.

#### 8.2.3 Environmental exposure controls:

Environmental manager must be informed of all major spillages.

### 9.0 PHYSICAL AND CHEMICAL PROPERTIES

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9.1 General Information	
Physical state	Solid
Appearance	Plastic Film
Color	Transparent, Translucent, Opaque, Pearl
Odor	Odorless
9.2 Important health, safety and environmental information	
pH(1% soln/water)	No data available.
Melting point	160 - 165 °C.
Density	0.65 - 0.95 gm/cm <sup>3</sup>
Flash point	350°C
Flammability (solid, gas)	No data available.
Auto ignition point	>380°C
Vapour pressure	No data available.
Dispersion property	No data available.
In organic solvents at 20°C	Insoluble in common organic solvents.
Water solubility:	Practically insoluble.
Refractive index	No data available.
9.3 Other information	
Std. enthalpy of formation $\Delta_f H^\circ_{298}$	No data available.
Standard molar antropy $S^\circ_{298}$	No data available.
10. STABILITY AND REACTIVITY	
10.1 Reactivity	
The product is stable and non reactive under normal conditions of use, storage and transport.	
10.2 Chemical stability	
Stable under normal conditions of use up to 45°C.	
10.3 Possibility of hazardous reactions	
No hazardous reactions known under normal atmospheric conditions.	
10.4 Conditions to avoid	
Do not heat to temperature exceeding 235 deg. C	
10.5 Incompatible materials	
Oxidizing agents. Halogens. Strong acids.	
10.6 Hazardous decomposition products	

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Thermal decomposition or combustion may liberate toxic and/or corrosive gases or fumes.

### 11 TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

##### Acute effects (acute toxicity, irritation and corrosivity) Acute Toxicity

**Skin corrosion/irritation:** Exposure to hot molten material. In this case: Rinse with plenty of water. Do NOT remove clothing (risk of sticking to skin) or do not try removing adhering material.

**Serious eye damage/irritation:** No data available.

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available.

**Summary of evaluation of the CMR properties:** No data are available in humans. Inadequate evidence of carcinogenicity in animals. OVERALL EVALUATION: Group 3: The agent is not classifiable as to its carcinogenicity to humans.

**Mutagenic Effects:** No data available.

**Reprotoxic Effects:** No data available.

#### Other Toxic Effects on Humans:

**Inhalation:** Fumes and vapours produced by heated or burnt material may be irritating for the respiratory track. Bring patient into fresh air; get medical advice if the symptoms continue.

**Eyes:** Exposure to hot molten material. In this case: Rinse with plenty of water. Seek immediate special treatment at hospital or medical center in case of irritation caused by vapours or fumes wash with water and seek medical advice.

**Ingestion** Under normal conditions of intended use, this material does not pose a risk to health.

**Chronic toxicity** No data available.

#### NIOSH Immediately Dangerous To Life or Health Concentration (IDLH):

No data available.

#### Specific target organ toxicity (single exposure)

No data available.

#### Specific target organ toxicity (repeated exposure)

No data available.

**Aspiration hazard:** No data available.

#### 11.1.188 Acute Toxicity:

Method: Data lacking.

### 12. ECOLOGICAL INFORMATION

Manufacturing Sites: \_\_\_\_\_

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<b>12.1 Ecotoxicity</b>	
<b>12.1.1 Acute aquatic toxicity (With M factor)</b>	
<b>Method</b>	<b>Results</b>
Data lacking.	
<b>12.1.2. Chronic aquatic toxicity: freshwater</b>	
Data lacking.	
<b>12.1.3. Chronic aquatic toxicity: marine waters</b>	
Data lacking.	
<b>12.1.4. Sediment toxicity</b>	
Data lacking.	
<b>12.1.5. Soil toxicity</b>	
Data lacking.	
<b>12.1.6. Toxicity to micro-organisms in STP</b>	
Data lacking.	
<b>12.2 Persistence and degradability</b>	
Non biodegradable, non compostable	
<b>12.3 Bioaccumulative potential</b>	
Data lacking.	
<b>12.4 Mobility in soil</b>	
Data lacking.	
<b>12.5 Results of PBT and vPvB assessment</b>	
Data lacking.	
<b>12.6 Other adverse effects</b>	
The product is not classified as environmentally hazardous.	
<b>12.7 Additional information</b>	
No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.	
<b>13 DISPOSAL CONSIDERATIONS</b>	
<b>13.1. Waste treatment methods</b>	
<b>13.1.1 Product / Packaging disposal:</b>	
<b>Waste codes / waste designations according to LoW:</b>	
Pick up film to avoid a slipping hazard.	
<b>13.1.2 Waste treatment-relevant information:</b>	
Dispose in accordance with local regulations, Landfill is preferred. Forced draft incineration is an alternate or recycling	
<b>13.1.3 Sewage disposal-relevant information:</b>	

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Data lacking.	
<b>13.1.4 Other disposal recommendations:</b>	
Same as mentioned above.	
<b>14 TRANSPORT INFORMATION</b>	
14.1. UN number	Not restricted
14.2. UN proper shipping name	Not restricted
14.3. Transport hazard class (as)	Not restricted
14.4. Packing group	Not restricted
14.5. Environmental hazards	Not restricted
<b>15 REGULATORY INFORMATION</b>	
<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
EU regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and CLP regulation.	
Authorisations and/or restrictions on use: None	
Authorisations: None	
Restrictions on use: None	
Other regulations: Not a dangerous substance according to GHS as the substance is not intended to be released from article.	
<b>15.2. Chemical Safety Assessment</b>	
<b>Chemical safety assessment:</b> A chemical safety assessment has been carried out for the substance or the mixture by the supplier.(LR)- No	
<b>16 OTHER INFORMATION</b>	
<b>Technical Advice</b>	
Use data given in this Safety Data Sheet and make an inventory list of all chemicals used in the factory.	
Create a Register for Workplace Chemicals.	
Set priorities concerning the safety in the organization.	
Create emergency plans for the assessed hazards.	
Organize occupational health care and regular surveys as necessary.	
Organize contacts with authorities/laboratories to create a monitoring system for chemical hazards, and to reliably measure and/or estimate occupational exposures to chemicals when needed.	
Start collecting case studies of accidents and sickness records in the enterprise to create a basis for priority measures in the control of hazards.	
Involve workers in safety organizations, such as the system of Safety Representatives and Committees.	
Do regular inspection using checklists made for the particular chemicals and chemical processes in use.	
Mark and label all chemicals.	
Keep at hand an inventory list of all chemicals handled in the place of work together with a collection of Chemical Safety Data Sheets for these chemicals;	

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Train workers to read and understand the Chemical Safety Information, including the health hazards and routes of exposure; train them to handle dangerous chemicals and processes with respect.

Plan, develop and choose the safe working procedures.

Reduce the number of people coming into contact with dangerous chemicals.

Reduce the length of time and/or frequency of exposure of workers to dangerous chemicals.

Train workers to know and understand the emergency procedures.

Equip and train workers to use personal protective equipment properly after everything possible has been done to eliminate hazards by means of other methods.

### Abbreviations and acronyms:

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

PBT: Persistent, bioaccumulative and toxic.

vPvB: Very Persistent and very Bioaccumulative.

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

### Key literature references and sources for data

OECD

ECHA

HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Not a dangerous substance according to GHS as the substance is not intended to be released from article.

### Relevant R-phrases and/or H-statements (number and full text):

This substance is not classified as dangerous according to Directive 67/548/EEC.

### Further information:

#### Created By:

ELC GROUP

Contact Person

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall **UFLEX LIMITED** be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages.

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